510(k) Summary for the Range Spinal System

This safety and effectiveness summary for the Range Spinal System is provided as required per Section 513(i)(3) of the Food, Drug and Cosmetic Act.

1. Submitter:

Contact Person:

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Telephone: 703-777-3155

Date Prepared: January 23, 2007

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2. Tradename: Common Name: Range Spinal System Spine Fixation System

Classification Name:

Pedicle Screw Spinal System (21 CFR 888.3070(b)(1))

Spinal Interlaminal fixation orthosis (21 CFR 888.3050)

3. Predicate or legally marketed devices which are substantially equivalent:

• Denali Spine System (K2M, Inc.)

• Mesa Spinal System (K2M, Inc.)

4. Description of the device:

The Range Spinal System is a top-loading, multiple component, posterior spinal fixation system which consists of pedicle screws, rods, hooks, and transverse connectors. All of the components are available in a variety of sizes to match more closely the patient's anatomy.

Materials: The devices are manufactured from Ti6Al-4V ELI alloy and CP Titanium per ASTM and ISO standards.

Function: The system functions as an adjunct to fusion to provide immobilization and stabilization of spinal segments of the thoracic, lumbar and / or sacral spine.

5. Intended Use:

The Range Spinal System is a non-cervical spinal fixation device intended for posterior, non-pedicle fixation for the following indications: degenerative disc disease (DDD) (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies); spondylolisthesis; trauma (i.e. fracture or dislocation); spinal stenosis; curvatures (i.e. scoliosis, kyphosis; and/or lordosis); tumor; pseudoarthrosis; and failed previous fusion.

The Range Spinal System is also intended for non-cervical pedicle screw fixation for the following indications: trauma (i.e. fracture or dislocation); spinal stenosis; curvatures (i.e. scoliosis, kyphosis; and/or lordosis); tumor; pseudoarthrosis; and failed previous fusion. It is also indicated for the treatment of severe spondylolisthesis (grades 3 and 4) of the L5-S1 vertebra in skeletally mature patients receiving fusion by autogenous bone graft having implants attached to the lumbar and sacral spine (L3 to sacrum) with removal of the implants after the attainment of a solid fusion.

6. Comparison of the technological characteristics of the device to predicate and legally marketed devices:

The Range Spinal System was biomechanically tested and compared to the other currently marketed systems and performed equal to these systems in ASTM testing to F1717. The design and sizing of the components are identical to these systems. It is manufactured from the same FDA recognized materials and is indicated for the same intended uses as these systems. There are no significant differences between the Range Spinal System and other systems currently being marketed which would adversely affect the use of the product. It is substantially equivalent to these other devices in design, function, material and intended use.



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Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

K2M, L.L.C. c/o Mr. Richard Woods Senior Vice President 751 Miller Drive, S.E., Suite F1 Leesburg, Virginia 20175

Re: K070229

Trade/Device Name: Range Spinal System Regulation Number: 21 CFR §888.3070

Regulation Name: Pedicle Screw Spinal System

Regulatory Class: Class II

Product Code: MNI, MNH, KWP

Dated: April 04, 2007 Received: April 06, 2007

Dear Mr. Woods:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

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Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Mark N. Melkerson

Director

Division of General, Restorative and

Neurological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

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Indications for Use

510(k) Number (if known):

Device Name: Range Spinal System

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Prescription Use X (Part 21 CFR 801 Subpart D)

AND/OR

Over-the-counter Use ___(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS-LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Division Sign-Off)

Division of General, Restorative, and Neurological Devices

510(k) Number <u>K070229</u>